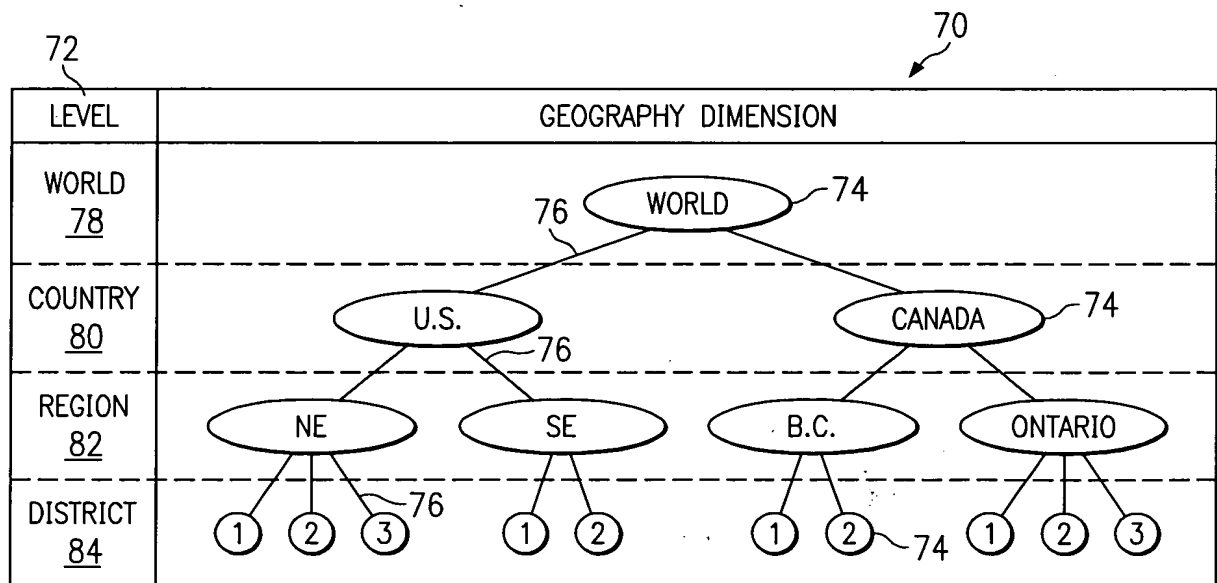
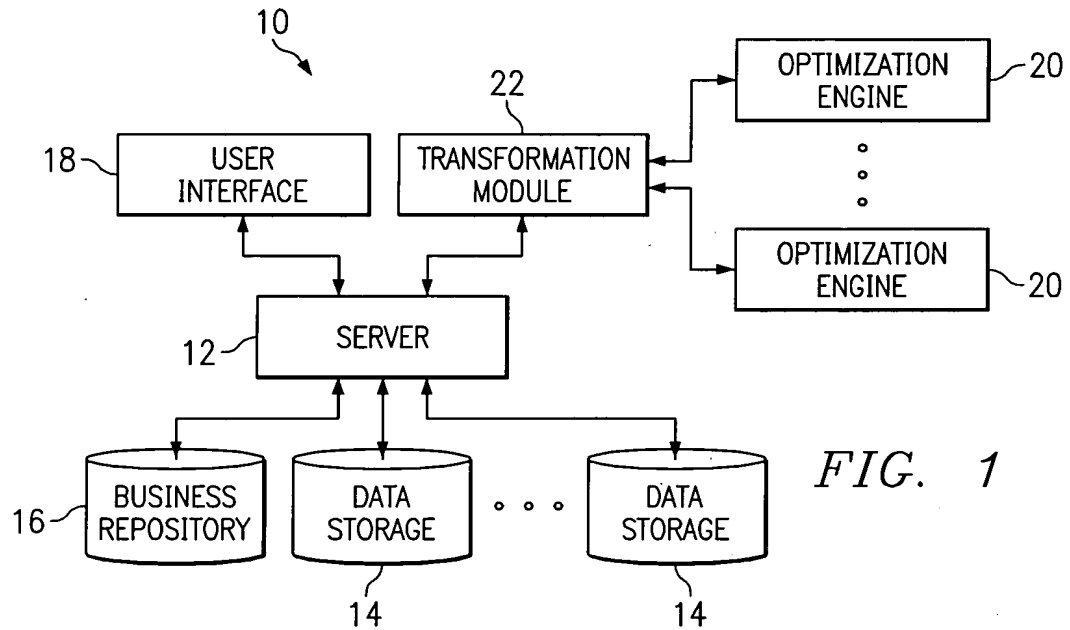
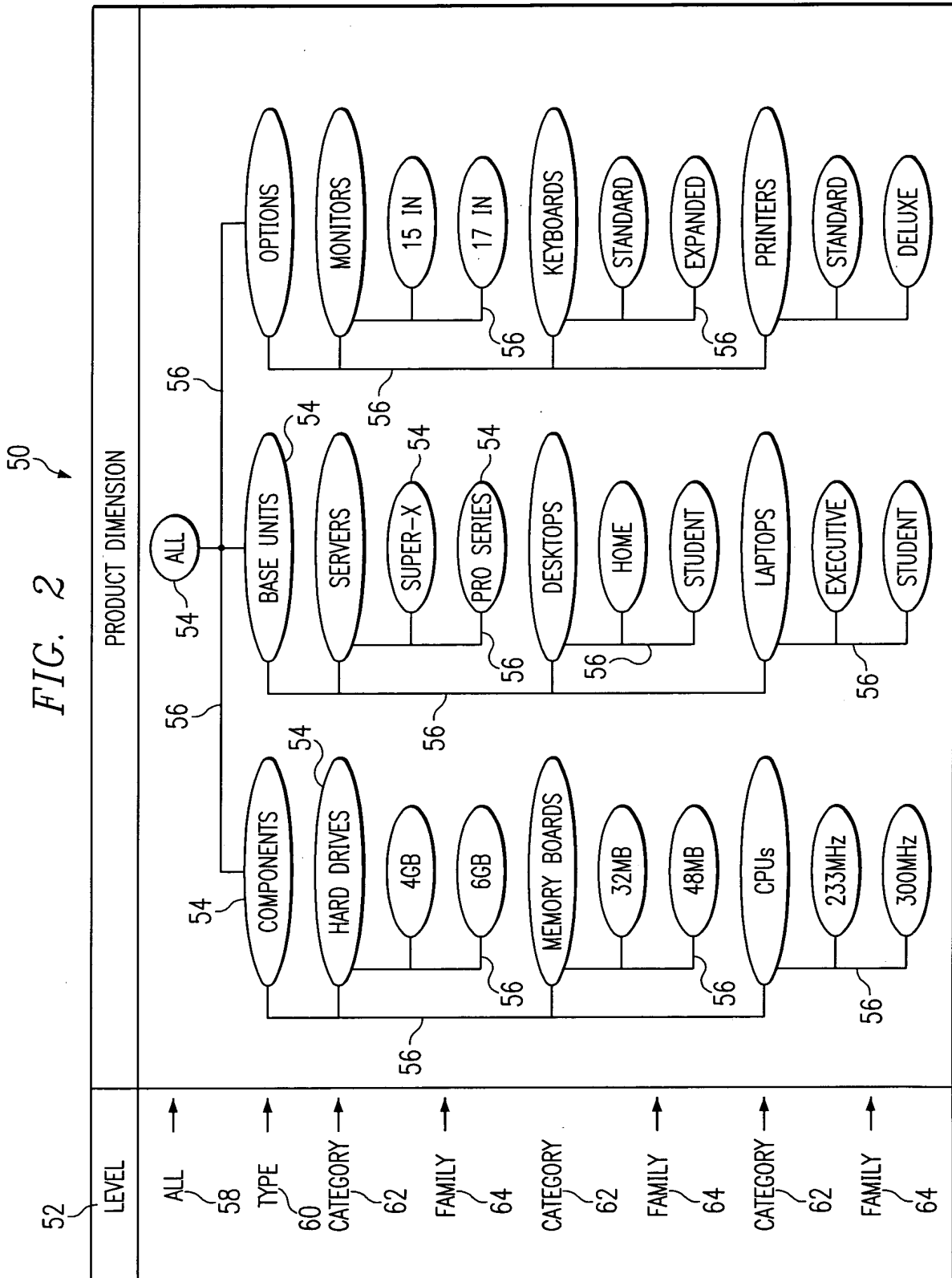


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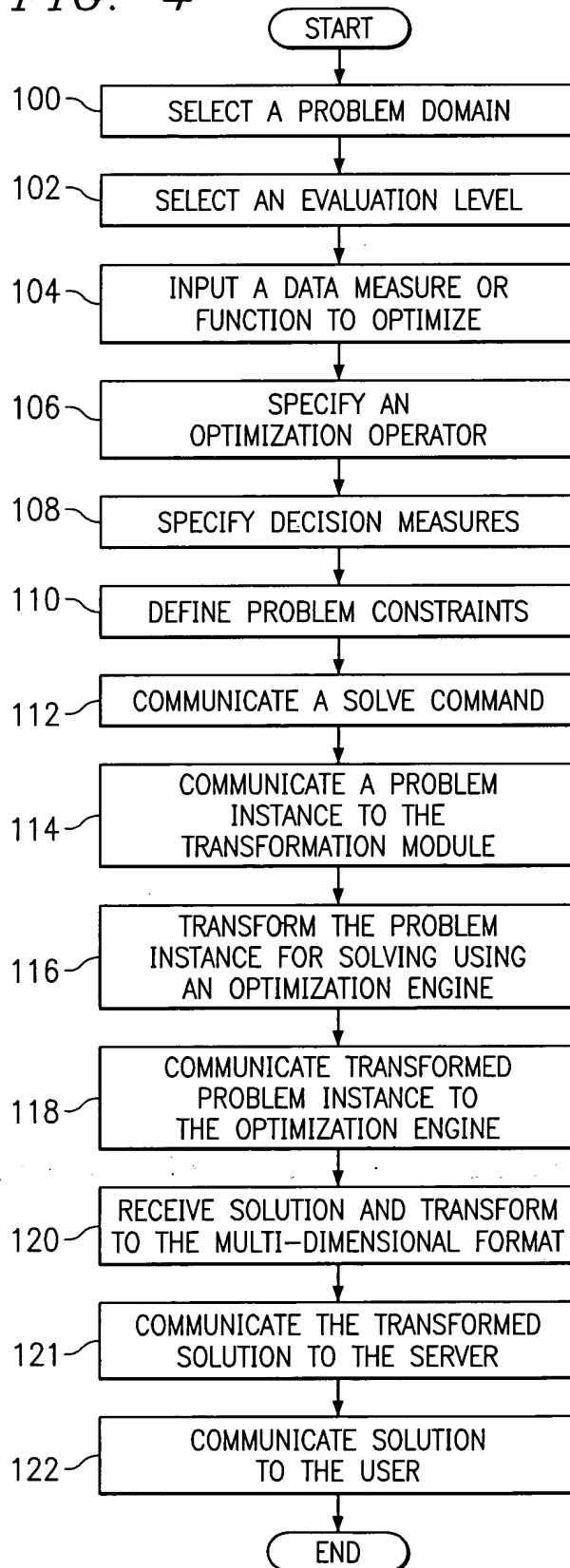


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FIG. 4



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The interface is divided into several sections:

- Problem Instance Information:**
 - Name:** Inst_1 (218)
 - Problem Structure:** maximize (UnitPrice@(Product,All_Times,Location) * Sales@ (Product,All_Times,Location))subject to { Sales@ (Product,All_Times,Location)<=10000 }
 - Buttons:** Edit, New (216)
- Decision Measures:**
 - Available Measures:** UnitPrice, UnitCost (208)
 - Selected Measures:** Sales (210)
 - Navigation:** >, >>, <, << (212)
- Problem Scope:**
 - Dimension:** Product, Time, Location
 - Domain:** All_Products (204), All_Times (204), World (204)
 - Evaluation Level:** Item_level (206), Month_level (206), City_level (206)
 - Buttons:** Save, Edit, Solve (222)
- Data Model:** (202)
- Buttons:** Save, Delete
- Problem Instances List:** Inst_1, Inst_2, Inst_3, Inst_4, Inst_5, Inst_6, Inst_7 (220)
- Filters (205):**
 - Product:** ☒ All_Products, ☐ Components, ☐ Base Units, ☐ Options
 - Time:** ☒ All_Times, ☐ 2000, ☐ 2001
 - LOCATION:** ☒ World, ☐ U.S., ☐ N.E., ☐ S.E., ☐ Canada, ☐ B.C., ☐ Ontario

FIG. 5

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Problem Instance Problem Structure Constraints Functions

ProblemStructions

- Struct_1
- Struct_2
- Struct_3
- Struct_4
- Struct_5**
- Struct_6
- Struct_7

234

205

Problem Structure Information

Name: Struct_5 232

Objective Function: max 240

Member ConstraintSets:

236

238 Edit

(((UnitPrice@() * Sales@())-(Cost@() * Sales@()))

240

Sales@ (Product,All_Times,Location)<=10000

Sales@()>=1

Sales@ (Laptop,All_Times,Location)>=10

Sales@ (Laptop,All_Times,Location)<=20

242

246 Delete Edit New 244

Save Delete

Show Named ConstraintSets

Show Named Functions

230

FIG. 6

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Constraint Set Information

Name: CS_3 (272)

Member Constraints: (278)

- Sales@(Product,All_Times,Location)<=10000
- Sales@(>=1
- Sales@(Laptop,All_Times,Location)>=10
- Sales@(Laptop,All_Times,Location)<=20

Buttons: Delete, Edit, New (280), Save, Delete

Constraints

ConstraintSet

- CS_1
- CS_2
- CS_3 (274)
- CS_4
- CS_5

Constraints

- Comp_Rep_Sales_Bo
- DTS1_Relative_Boun
- Family_Bound_Ex
- Laptop_Sales_Lower
- Sales_Laptop_Upper
- Total_Sales_Bound (276)

270

FIG. 7

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Problem Instance Problem Structure Constraints Functions

ConstraintSet

- CS_1
- CS_2
- CS_3
- CS_4
- CS_5

Constraints

- Comp_Rep_Sales_Bo
- DTS1_Relative_Boun
- Family_Bound_Ex
- Laptop_Sales_Lower
- Sales_Laptop_Upper
- Total_Sales_Bound

Constraint Information

Name: Family_Bound_Ex 292

Left Hand Function: Sales@() 296

Relational Operator: >= 298

Right Hand Function: 10 300

Replicable: ☒ Conditional ☐

Replication Pattern: Exhaustive 302

Show Named Functions

Save Delete

FIG. 8

290

294

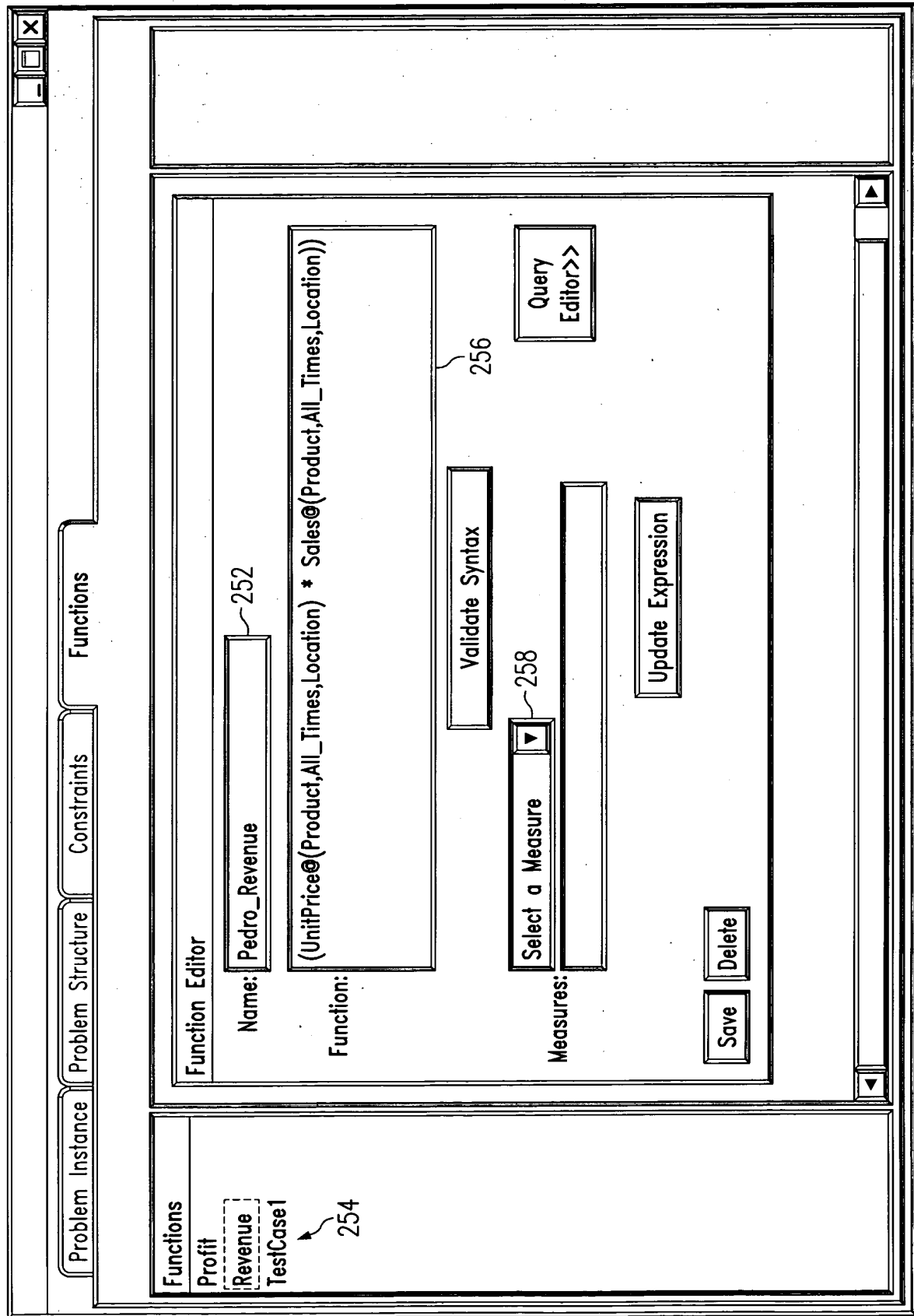


FIG. 9

250

252

256

258

254